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leaderhub LP5C

leaderhub LP5C Mini Gaming PC i5-12450HX User Manual

Model: LP5C

1. INTRODUCTION AND OVERVIEW

The leaderhub LP5C Mini Gaming PC is a compact yet powerful desktop computer designed for various tasks, from office work and online learning to multimedia consumption and light gaming. Featuring an Intel i5-12450HX processor, 16GB DDR4 RAM, and a 512GB NVMe SSD, it offers responsive performance and efficient multitasking. This mini PC supports dual 4K display output and comes with comprehensive connectivity options, including multiple USB 3.2 ports, HDMI, and Gigabit Ethernet. Its efficient cooling system ensures quiet operation even under load.

Easy Expansion for Stronger Performance



RAM
16GB DDR4 3200

Built with 2 DDR4 SO-DIMM slot, supporting up to 64GB of DDR4 3200MHz memory, providing strong power for multitasking



ROM
512GB M.2 2280 SSD

The storage utilizes an M.2 2280 interface, compatible with M.2 NVMe PCIe 4.0 SSDs/SATA and M.2 SATA SSDs, expandable up to 4TB to accommodate all your storage need



Figure 1: Overview of the leaderhub LP5C Mini PC's key features.

2. WHAT'S IN THE BOX

Upon opening your leaderhub LP5C Mini PC package, please verify that all the following items are included:

- 1 x HDMI cable
- 1 x i5 12450HX Mini PC (16GB RAM, 512GB M.2 SSD)
- 1 x Power Adapter
- 1 x User Manual (this document)

- 1 x VESA Mount with Screws

3. SETUP GUIDE

3.1 Connecting Peripherals

Before powering on your mini PC, connect all necessary peripherals:

1. **Connect Display:** Use the provided HDMI cable to connect your monitor(s) to the HDMI ports on the back of the mini PC. The LP5C supports dual 4K@60Hz displays.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any of the available USB 3.2 ports.
3. **Connect Network (Optional):** For a wired internet connection, connect an Ethernet cable from your router or modem to the RJ45 1000M LAN port. Alternatively, you can use the built-in WiFi 6 for wireless connectivity.
4. **Connect Audio (Optional):** If using external speakers or headphones, connect them to the 3.5mm audio jack.
5. **Connect Power:** Plug the power adapter into the DC 19V power interface on the mini PC, then connect the adapter to a power outlet.

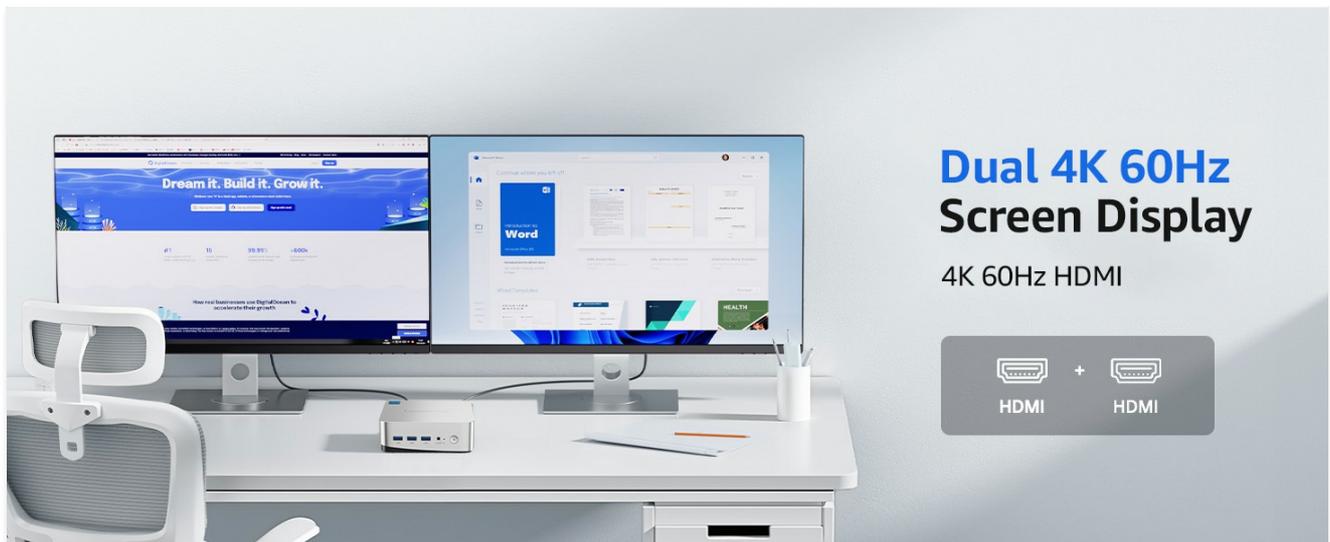


Figure 2: Port layout for connecting peripherals.

3.2 Initial Boot-up

After connecting all peripherals and power, press the power button located on the front of the mini PC. The system will boot into Windows 11 Pro. Follow the on-screen instructions for initial setup, including language, region, and user account creation.

3.3 VESA Mount Installation (Optional)

The included VESA mount allows you to attach the mini PC to the back of a compatible monitor or to a wall, saving desk space. Use the provided screws to secure the mount to the VESA holes on your monitor or wall, then slide the mini PC onto the mount.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **Power On:** Press the power button on the front panel.
- **Power Off:** Click the Start button in Windows, then select Power > Shut down. Alternatively, you can press and hold the power button for 5 seconds for a forced shutdown (not recommended for regular use).

4.2 Network Connectivity

- **Wired Connection:** If an Ethernet cable is connected, the PC will automatically detect the network.
- **Wireless Connection (WiFi 6):** Click the network icon in the Windows taskbar, select your desired WiFi network, enter the password, and click Connect.

4.3 Dual Display Setup

The LP5C supports connecting two monitors simultaneously via its dual HDMI 2.0 ports, enabling an extended desktop experience for enhanced productivity.

1. Connect both monitors to the HDMI ports on the mini PC.
2. Right-click on the desktop and select "Display settings."
3. Under "Multiple displays," you can choose to extend, duplicate, or show only on one display. Adjust resolution and orientation as needed.

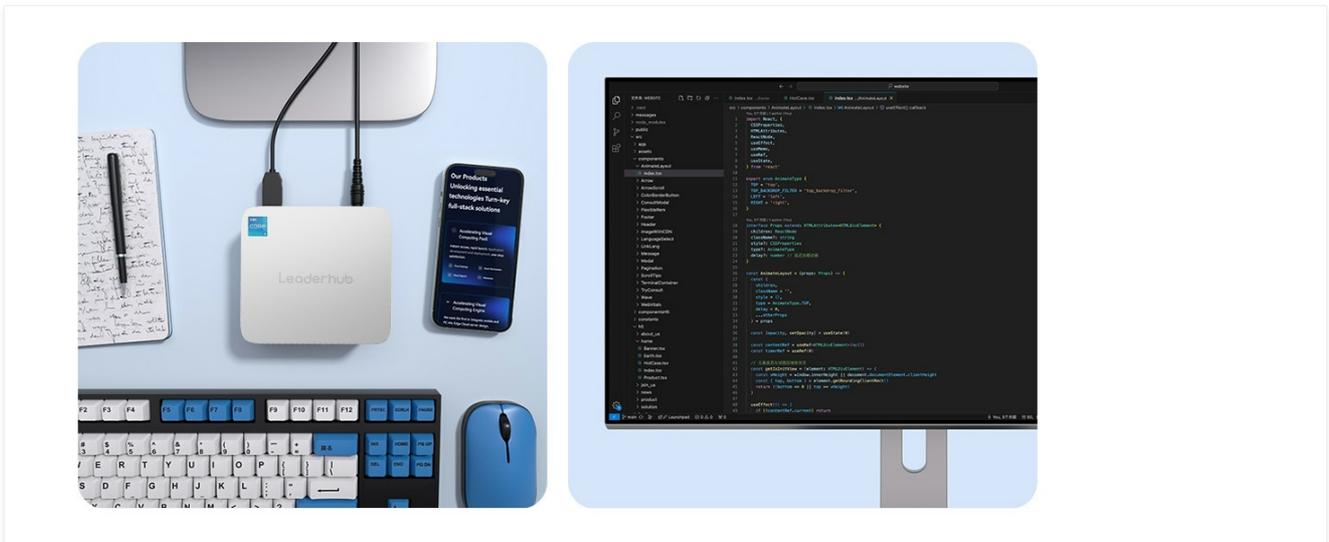


Figure 3: Dual 4K display setup for increased productivity.

5. MAINTENANCE

5.1 Cooling System

The LP5C Mini PC features a dual heat-pipe solution and an efficient cooling fan to maintain optimal operating temperatures and quiet performance (under 35dB). To ensure proper airflow and prevent overheating:

- Ensure the ventilation openings on the chassis are not blocked.
- Periodically clean dust from the vents using compressed air.
- Operate the PC in a well-ventilated area.

Supports Various Device Connections



Figure 4: Internal cooling system for ultra-quiet performance.

5.2 Storage and Memory Expansion

The LP5C Mini PC offers expansion capabilities for both RAM and storage:

- **RAM:** It comes with 16GB DDR4-3200 RAM and supports up to 64GB DDR4 3200MHz via two SO-DIMM slots.
- **Storage:** The 512GB M.2 2280 NVMe SSD can be expanded up to 4TB. There is an additional M.2 2280 expansion slot that supports both NVMe PCIe and SATA SSDs.

To upgrade, carefully open the chassis, locate the M.2 slots and SO-DIMM slots, and install compatible components. It is recommended to consult a professional if you are unsure about the upgrade process.

Multiple Ports for All Your Needs

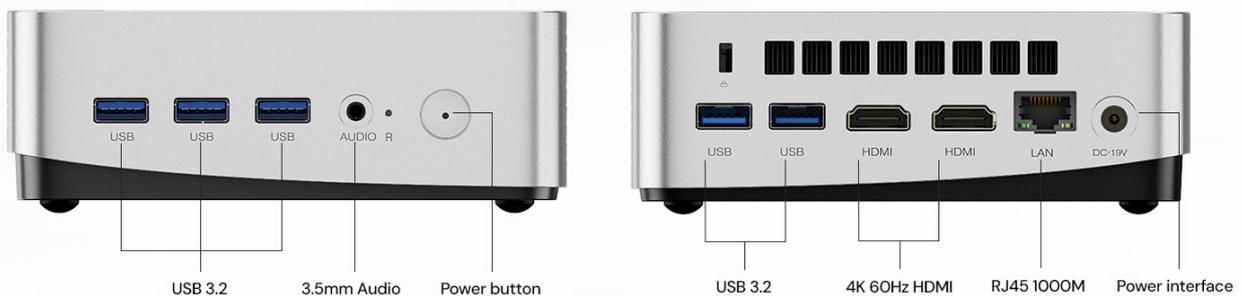


Figure 5: Internal layout showing RAM and SSD expansion slots.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your leaderhub LP5C Mini PC.

- **No Power:**
 - Ensure the power adapter is securely connected to both the mini PC and a working power outlet.
 - Verify the power outlet is functional by plugging in another device.
 - Check the power adapter for any visible damage.
- **No Display:**

- Confirm that the HDMI cable(s) are securely connected to both the mini PC and the monitor(s).
- Ensure the monitor is powered on and set to the correct input source (HDMI 1, HDMI 2, etc.).
- Try connecting to a different monitor or using a different HDMI cable to rule out faulty components.

- **No Internet Connection:**

- **Wired:** Check if the Ethernet cable is properly connected and if your router/modem is working.
- **Wireless:** Verify that WiFi is enabled in Windows settings and that you are connected to the correct network with the correct password. Restart your router/modem if necessary.

- **System Slowdown or Freezing:**

- Close unnecessary applications running in the background.
- Check Task Manager (Ctrl+Shift+Esc) for processes consuming high CPU, RAM, or disk usage.
- Ensure the PC has adequate ventilation and is not overheating.
- Run a disk cleanup and defragmentation (for HDD, not necessary for SSD).
- Update Windows and device drivers.

If you encounter issues not covered here or require further assistance, please refer to the Warranty and Support section for contact information.

7. SPECIFICATIONS

Detailed technical specifications for the leaderhub LP5C Mini Gaming PC:

Feature	Specification
Processor	Intel Core i5-12450HX (8 Cores, 12 Threads, up to 4.4 GHz)
Graphics Coprocessor	Intel UHD Graphics 770 (Integrated)
RAM	16GB DDR4-3200 (Expandable up to 64GB)
Storage	512GB M.2 2280 NVMe SSD (Expandable up to 4TB, additional M.2 slot for NVMe/SATA)
Operating System	Windows 11 Pro
Video Output	2 x HDMI 2.0 (Supports Dual 4K@60Hz)
USB Ports	5 x USB 3.2
Network	1000M RJ45 Ethernet, WiFi 6 (802.11ax)
Bluetooth	Bluetooth 5.2
Audio	3.5mm Audio Jack
Dimensions	Approximately 4.97 x 5.42 x 1.85 inches
Weight	Approximately 2.27 pounds

8. WARRANTY AND SUPPORT

All leaderhub mini PCs include a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and ensures your product functions as intended under normal use.

For technical assistance, troubleshooting, or warranty claims, leaderhub provides **24/7 after-sales support**. Please contact us through the official leaderhub store on Amazon or via the contact information provided in your product packaging. Your satisfaction is our top priority.

For more information, visit the [leaderhub Store on Amazon](#).